

SITE INFORMATION

Revised 1/8/98

Current Site Name: Yaragadee
Other Site Name:
Location: Yaragadee, Australia
Site Number: 133
Geographic Region: Australia
Tectonic Plate: Australian-Indian

General Site Description: The site is located on the west coast of Australia, 53 miles east southeast of Geraldton and 218 miles north of Perth. The monumented pad is compatible for occupation by mobile laser systems. Moblas-5 first occupied the station in August 1979 and will remain for the duration of the project. This site plays a key role in the measurement of the Australian plate movement.

Geological Province: Perth basin

Local Geology: Jurassic Yaragadee formation; sandstone, siltstone, shale. The terrain is covered by low scrub.

Site Topo Map: Series R611 sheet 1939 'Mingenew', Division of National Mapping, Australia

CONTACT INFORMATION

Site Ownership: Australia
Site Management: Australia Surveying and Land Information Group (AUSLIG), Department of Administrative Services/Australian Space Office under contract to NASA/GSFC
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MONUMENT INFORMATION

Revised 1/8/98

Current Site Name: Yaragadee
 Location: Yaragadee, Australia
 Site Number: 133
 Number of Observing Monuments: 1
 Surveyed into National Network? Yes

Monument Number: 7090
 Type of Monument: Brass Disk
 Monument Inscription: Dongara 95
 Systems using Monument: MOBLAS-5

Latitude: S 29° 02' 47.40143"
 Longitude: E 115° 20' 48.28007"
 Elevation: 266.568 meters
 Height above Ellipsoid: 241.355 meters
 Geodetic Coordinate Source/Date: AUSLIG, Geodetic Serv. Section/ 29-Aug-91
 Geodetic Coordinate Datum/Ellipsoid: IERS ITRF94 (1993)
 Elevation Datum:
 Source of Monument Geodetic Survey Ties:
 Comments: This system was referenced as NATMAP. Reference point is the center of the 152mm mirror at north end of the horizontal bearing.

Differential Coordinates

Monument Number	Monument Inscription	X	Y	Z
—	DON 38 (PSM2)	46.597	-22.841	-76.112
—	DORIS ANT REF PT	2.990	11.270	11.823
—	DORIS ANTENNA	2.993	11.264	11.826
—	DORIS STN MARK	3.818	9.521	12.897
—	PILLAR 1	-1440.348	930.486	2602.800
—	PILLAR 2	-64.362	47.561	127.291
—	PILLAR 3	-40.025	34.402	85.360
—	RM 1	-10.552	6.608	19.514
—	RM 2	-4.562	2.856	8.442
—	RM 3	-8.046	-5.369	-2.529
—	RM 4	-18.605	-12.471	-5.835
—	ROGUE GPS	-18.605	-12.471	-5.835

SITE SKETCH

Current Site Name: Yaragadee
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OCCUPATION HISTORY

Revised 1/8/98

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SLR Occupations

Monument Number	Occupying System	Occupation Designator	Starting Date	Ending Date
7090	MOBLAS-5	70900501	01-Jul-79	27-Jul-83
7090	MOBLAS-5	70900502	27-Jul-83	19-Nov-84
7090	MOBLAS-5	70900503	19-Nov-84	05-Sep-85
7090	MOBLAS-5	70900504	05-Sep-85	16-Apr-87
7090	MOBLAS-5	70900505	23-Apr-87	13-Aug-87
7090	MOBLAS-5	70900506	13-Aug-87	26-Aug-87
7090	MOBLAS-5	70900507	26-Aug-87	04-Aug-89
7090	MOBLAS-5	70900508	05-Aug-89	12-Nov-90
7090	MOBLAS-5	70900509	13-Nov-90	06-Jun-91
7090	MOBLAS-5	70900510	07-Jun-91	08-Jan-92
7090	MOBLAS-5	70900511	21-Jan-92	23-Mar-92
7090	MOBLAS-5	70900512	24-Mar-92	13-Jul-92
7090	MOBLAS-5	70900513	21-Jul-92	-----

VLBI Occupations

Monument Number	Occupying System	Occupation Designator	Starting Date	Ending Date
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No Previous Occupations

GPS Occupations

Monument Name	Starting Date	Ending Date	Network
YAR1	01-Jan-91	-----	IGS

Footprint Surveys

Survey	Starting Date	Source
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No footprint surveys were completed. See the station description notes for geodetic ties to other local geodetic stations.